



**JINDAL GLOBAL
BUSINESS SCHOOL**

INDIA'S FIRST MULTI-DISCIPLINARY GLOBAL BUSINESS SCHOOL



O.P. Jindal Global University

A Private University Promoting Public Service

NAAC Accreditation - 'A' Grade

Jindal Global Business School
Course Outline

Course Title	Information Security Management
Core or Elective	Elective
Program and Batch	BBA-2023, BBA-BA-2023, BBA-FB-2023, BBA-FM-2023
Semester & Academic Year	Fall 2026
Credits	3
Discipline/Area	Information Systems & Analytics
Name of the Faculty Member/Course Instructor	Shreya Mukherjee
Contact Details of the Faculty Member	shreya.mukherjee@jgu.edu.in
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Faculty Member's Open Office Day/s & Time	Wednesday 14:00-15:00 Thursday 14:00-15:00

Introduction to the Course

This course introduces undergraduate students to the fundamental concepts of information security management and the growing importance of protecting digital assets in organizations. With the rapid expansion of digital technologies, organizations face increasing risks related to data breaches, cyber threats, and system vulnerabilities. The course provides a conceptual understanding of how organizations safeguard information through structured security principles, governance mechanisms, and risk management practices. Designed for non-technical learners, the course emphasizes managerial perspectives of cybersecurity rather than deep technical implementation.

Across sessions, the course will cover major topics such as: introduction to information security and the cybersecurity landscape; career roles in cybersecurity; core security principles including the CIA triad, authentication, authorization and accounting (AAA); concepts such as least privilege, defence in depth, implicit deny, and non-repudiation; authentication methods and password security practices; information security governance and legal considerations; and case discussions on organizational security decisions. The course further explores risk management in information security, including the definition of risk and threats, risk identification, risk categories, risk appetite and tolerance, qualitative and quantitative risk analysis, and approaches organizations use to mitigate security risks. Real-world examples and organizational cases will be used to connect theory with practice.

The pedagogy will combine interactive lectures, case discussions, short quizzes, and student activities to ensure conceptual clarity and practical understanding. Students will analyze real-world cases related to cybersecurity incidents and organizational responses. Short in-class exercises, scenario-based discussions, and quizzes will help reinforce key concepts. The course may also include small group discussions and applied assignments where students identify security risks in everyday digital environments and propose mitigation strategies.

This course will benefit undergraduate students from business, management, and non-technical backgrounds by developing awareness of cybersecurity challenges faced by modern organizations. Students will gain the ability to understand security principles, recognize potential digital risks, and appreciate governance and managerial decision-making related to information protection. The knowledge gained will help students become more responsible digital users while also preparing them for roles in management, consulting, operations, and technology-enabled business environments where cybersecurity awareness is increasingly essential.

Course Learning Objectives

At the end of the course, students should be able to

1. **CLO1:** Explain the fundamental principles of information security and their role in modern organizations.
2. **CLO2:** Evaluate key cybersecurity threats, vulnerabilities, and risks faced by organizations.
3. **CLO3:** Assess the impact of emerging technologies (e.g., AI, IoT, Cloud Computing, Blockchain) on information security and organizational practices.
4. **CLO4:** Formulate managerial approaches and organizational strategies to enhance information security and mitigate risks.
5. **CLO5:** Critically evaluate ethical, legal, and societal implications related to cybersecurity and data protection.

Programme Competency Goals

BBA Programme Competency Goals (PCGs)	BBA Programme Learning Objectives (PLOs)
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		Students will be able to
1	Responsible Global Citizenship: Ability to understand the interplay between local and global issues and to act with sensitivity towards ethical and social issues	1. Understand local business issues
		2. Understand global business issues
		3. Demonstrate sensitivity towards ethical issues
		4. Demonstrate sensitivity towards social issues
2	Effective communication: Ability to effectively exchange ideas and information	5. Present their ideas with clarity
		6. Write in a coherent manner
		7. Use technology for communication
3	Critical Thinking: Ability to identify, analyze business problems and propose effective solutions	8. Identify main issues of business problems
		9. Examine information from different sources
		10. Draw inferences from analysis
4	Teamwork: Ability to work and contribute effectively in group -settings	11. Understand the factors to work effectively in groups
		12. Contribute effectively in groups

PLO-PCG Assessments Mapping Matrix

Program Objectives (PLOs)	Learning Outcomes	Program Competency Goals (PCGs)	Course Assessment Item
This course helps you to develop the following Program Learning Outcomes:		This course helps you to develop the following Program Competency Goals:	This learning outcome will be assessed in the following items
PLO1, PLO2 PLO3, PLO4		PCG1	A1, A2
PLO1, PLO2 PLO5, PLO8, PLO9 PLO10, PLO11, PLO12		PCG1, PCG2, PCG3, PCG4	A3
PLO1, PLO2		PCG1	A4

Evaluation Schema

The course grade will be determined based on:

Assessment Task	Weightage	Nature	Week	of	PLOs	to	be
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	(Percentage)	(Individual/Group)	Assessment	Assessed
A1: Class Participation	10%	Individual	All the sessions	PLO1, PLO2 PLO3, PLO4
A2 Quiz (Total 3)	30%	Individual	5 th , 9 th and 12 th Week	PLO1, PLO2 PLO3, PLO4
A3 Project Presentation	30%	Group	14 th Week	PLO1, PLO2 PLO5, PLO8, PLO9, PLO10, PLO11, PLO12
A4 End-of-term Examination	30%	Individual	In the JGU Examination period/week	PLO1, PLO2

Description of Assessments:

A1- Class Participation & Attendance: You are expected to participate in class discussions and ask relevant questions. A student who has a class attendance of less than 75% till the end of the semester will get 0 in this assessment. The purpose of the component is to encourage students to take advantage of the industry interface being provided by the GLs, participate in the case discussions, and delve deeper into the topic by going beyond what is covered in the session. The idea is to have a 'practice' focused assessment in addition to the 'theoretical' assessments. Class participation, in general, has a 10% weightage, and participation in each GL has a 2.5% weightage.

A2- The in-class quiz will be used to assess students' understanding of concepts covered in the class. There will be three MCQ quizzes in the 5th, 9th and 12th weeks of the course, conducted on UMS.

A3- Project Presentation -You are expected to carefully analyse a case study/business situation and present your analysis and findings in a PowerPoint/video format. The presentation/video must carry a thorough problem identification, analysis, and recommendation (probable solution, and action plan).

A4 End term examination- The end term examination will be of 30 marks, of 1.5 hours duration. This will be an invigilated exam held on the JGU campus according to the mode decided by CoE. The end-term assessment will evaluate the students' critical thinking regarding the management of IT concepts and their applications in various business domains.

Rubrics for Assessments - Project Presentation: Students will present a contemporary topic/case study/business situation in groups.

Grading Rubrics for the Presentation

Criteria	10 – Outstanding	9 – Proficient	8 – Basic	7 (or lower) - Below Expectations
OBJECTIVE				
Prepare and present the topic/case study as per the requirements	All portions of the assignment, including presentations, data, and details, were attempted and submitted. The presentation will be assessed based on the following. <ol style="list-style-type: none"> 1. Content quality (accuracy, depth, relevance). 2. Organization (logical flow, clarity of structure). 3. Delivery (confidence, clarity, eye contact, body language). 4. Visual aids (appropriateness, design, effectiveness). 5. Time management (adherence to time limits). 6. Engagement (ability to hold audience interest, interaction). 			

Teaching Method

The course will have a judicious mix of lectures, storytelling, experiential exercises, and cases. Here, the onus of learning will be with the student, and the instructor will be a facilitator. Instead of learning ‘what to do’, the cases will also be used as examples of real-world phenomena where issues arise, and good and bad practices are seen. The key to learning this way is to see many examples and situations and learn inductive as well as deductive ways from students’ and managers' different experiences.

Textbook / Other Readings

1. Whitman, M. E., & Mattord, H. J. Management of Information Security, 7th Edition, Publisher: Cengage Learning; ISBN-10: 0357506154; ISBN-13: 978-0357506158
2. Laudon, K. C., & Laudon, J. P. Management Information Systems: Managing the Digital Firm. 17th Edition, Publisher: Pearson Education; ISBN-10: 813178746X

Guest Speakers

Session	Faculty Name	Guest Speaker	Title of the Session
13 th	Shreya Mukherjee	Sohini Bhattacharyya	Security design principles
20 th	Shreya Mukherjee	Ankita Saha	Understand cybersecurity landscape

Session Plan

Session Details	Topics	PLOs Covered
Session 1	Introduction to Security Management Part 1	PLO1 and PLO2
Objective of the session	Introduce the need security management in Business	
Subtopics to be covered	The Need for Security Management	
Readings	TB-1: Chapter 1	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 2	Introduction to Security Management Part 2	PLO1 and PLO2
Objective of the session	Introduce the need security management in Business	
Subtopics to be covered	The Need for Security Management	
Readings	TB-1: Chapter 1	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 3	Understanding cybersecurity domains and landscape: Part 1	PLO1 and PLO2
Objective of the session	Explore cybersecurity domains	
Subtopics to be covered	Learn core security principles	
Readings	TB-1: Chapter 4	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 4	Understanding cybersecurity domains and landscape Part 2	PLO1 and PLO2
Objective of the session	Explore cybersecurity domains	
Subtopics to be covered	Understand authentication basics	
Readings	TB-1: Chapter 4	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 5	Understanding cybersecurity domains and landscape Part 3	PLO1 and PLO2
Objective of the session	Explore cybersecurity domains	

session		
Subtopics to be covered	Application of security design principles	
Readings	TB-1: Chapter 4	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 6	Risk Management Part 1	PLO1 and PLO2
Objective of the session	To Manage Risk in Business	
Subtopics to be covered	Overview of Risk Management	
Readings	TB-1: Chapter 5	
Case Title & Number	Netflix's Calculated Risk for Cloud Success	
Pedagogy	Lectures, cases, and class discussions	
Session 7	Risk Management Part 2	PLO1 and PLO2
Objective of the session	Managing Risk in Business	
Subtopics to be covered	Exploring Risks and Threat	
Readings	TB-1: Chapter 5	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 8	Risk Management Part 3	PLO1 and PLO2
Objective of the session	Managing Risk in Business	
Subtopics to be covered	Quantitative Risk Management Practices	
Readings	TB-1: Chapter 5	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 9	Risk Management Part 4	PLO1 and PLO2
Objective of the session	Managing Risk in Business	
Subtopics to be covered	Qualitative Risk Management Practices	
Readings	TB-1: Chapter 5	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 10	Cryptography Part 1	PLO1 and PLO2
Objective of the session	To understand importance of cryptography in security management	

Subtopics to be covered	Foundations of Cryptology	
Readings	TB-1: Chapter 8	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 11	Cryptography Part 2	PLO1 and PLO2
Objective of the session	To understand importance of cryptography in security management	
Subtopics to be covered	Encryption	
Readings	TB-1: Chapter 8	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 12	Security Technology: Part 1	PLO1 and PLO2
Objective of the session	To provide an overview of security technology	
Subtopics to be covered	Access Controls, Firewalls	
Readings	TB-1: Chapter 6	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 13	Security Technology: Part 2	PLO1 and PLO2
Objective of the session	To provide an overview of security technology	
Subtopics to be covered	VPN	
Readings	TB-1: Chapter 6	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 14	Guest Lecture	PLO1 and PLO2
Objective of the session	Security design principles	
Subtopics to be covered	N/A	
Readings	N/A	
Case Title & Number	N/A	
Pedagogy	Lectures, cases, and class discussions	
Session 15	Revision (Experiential Learning)	PLO10, PLO11, PLO12, PLO1, PLO2, PLO5,
Objective of the session	Revision through Experiential Learning	
Subtopics to be covered	N/A	

covered		PLO9
Readings	N/A	
Case Title & Number	N/A	
Pedagogy	Lectures, cases, and class discussions	
Session 16	Securing Information Systems (Part 1)	PLO1 and PLO2
Objective of the session	Addressing the Security Issues in IS	
Subtopics to be covered	1. System Vulnerability and Abuse 2. Business Value of Security and Control	
Readings	Chapter 8, Sections 8.1- 8.2: MIS- Managing the Digital Firm. Pearson.	
Case Title & Number	"Capital One: A Big Bank Heist from the Cloud" (Pages 337-338 of the Textbook)	
Pedagogy	Lectures, cases, and class discussions	
Session 17	Securing Information Systems (Part 2)	PLO1 and PLO2
Objective of the session	Addressing the Security Issues in IS	
Subtopics to be covered	1. System Vulnerability and Abuse 2. Business Value of Security and Control	
Readings	Chapter 8, Sections 8.1- 8.2: MIS- Managing the Digital Firm. Pearson.	
Case Title & Number	"Capital One: A Big Bank Heist from the Cloud" (Pages 337-338 of the Textbook)	
Pedagogy	Lectures, cases, and class discussions	
Session 18	Cyber Insurance	PLO1 and PLO2
Objective of the session	Understanding the role of cyber insurance	
Subtopics to be covered	Cyber Insurance Adoption	
Readings	Banerjee, S., Das, S. Cyber Insurance Adoption at Individual Level: A Mixed Method Study. <i>Inf Syst Front</i> (2026).	
Case Title & Number	https://doi.org/10.1007/s10796-026-10703-9	
Pedagogy	Lecture videos, readings, and discussions during live sessions.	
Session 19	Experiential Learning Session	PLO10, PLO11, PLO12, PLO1, PLO2, PLO5, PLO9
Objective of the session	Experiential Learning Session	
Subtopics to be covered	Risk Management	
Readings	NA	
Case Title & Number	NA	

Pedagogy	Lectures, cases, and class discussions	
Session 20	Guest Lecture	PLO1 and PLO2
Objective of the session	Understand cybersecurity landscape	
Subtopics to be covered	N/A	
Readings	N/A	
Case Title & Number	N/A	
Pedagogy	Lectures, cases, and class discussions	
Session 21	Experiential Learning Session	PLO10, PLO11, PLO12, PLO1, PLO2, PLO5, PLO9
Objective of the session	Experiential Learning Session	
Subtopics to be covered	Intrusion Detection	
Readings	NA	
Case Title & Number	NA	
Pedagogy	Lectures, cases, and class discussions	
Session 22	IT Auditing	PLO1 and PLO2
Objective of the session	To understand the importance of IT auditing	
Subtopics to be covered	Introduction to IT Audits , Role of IT Audits ,Benefits of IT Audits	
Readings	TB-1: Chapter 12	
Case Title & Number	NA	
Pedagogy	Lecture videos, readings, and discussions during live sessions.	
Session 23	IT Auditing	PLO1 and PLO2
Objective of the session	To understand the importance of IT auditing	
Subtopics to be covered	IT Audit Frameworks	
Readings	TB-1: Chapter 12	
Case Title & Number	NA	
Pedagogy	Lecture videos, readings, and discussions during live sessions.	
Session 24	Ethical and Social Issues for security management	PLO1 and PLO2
Objective of the session	Understanding Moral Values	

session		
Subtopics to be covered	Ethical Issues	
Readings	Chapter 4: Section 4.3: MIS- Managing the Digital Firm. Pearson.	
Case Title & Number	"Your Smartphone: Big Brother's Best Friend" (Pages 151-153 of the Textbook)	
Pedagogy	Lectures, cases, and class discussions	
Session 25	Ethical and Social Issues for security management(contd.)	PLO1 and PLO2
Objective of the session	Understanding Moral Values	
Subtopics to be covered	Social Issues	
Readings	Chapter 4: Section 4.3: MIS- Managing the Digital Firm. Pearson.	
Case Title & Number	"Your Smartphone: Big Brother's Best Friend" (Pages 151-153 of the Textbook)	
Pedagogy	Lecture videos, readings, and discussions during live sessions.	
Session 26	Revision (Experiential Learning)	PLO10, PLO11, PLO12, PLO1, PLO2, PLO5, PLO9
Objective of the session	Revision through Experiential Learning	
Subtopics to be covered	N/A	
Readings	N/A	
Case Title & Number	N/A	
Pedagogy	Lectures, cases, and class discussions	
Session 27	Project Presentation	PLO10, PLO11, PLO12, PLO1, PLO2, PLO5, PLO9
Objective of the session	Understanding of the contemporary topic	
Subtopics to be covered	NA	
Readings	NA	
Case Title & Number	NA	
Pedagogy	Presentation and class discussions	
Session 28	Project Presentation	PLO10, PLO11, PLO12, PLO1, PLO2, PLO5, PLO9
Objective of the session	Understanding of the contemporary topic	
Subtopics to be covered	NA	
Readings	NA	

Case Title & Number	NA	
Pedagogy	Presentation and class discussions	
Session 29	Reading and Revision Week	
Objective of the session	Course revision and doubt clearing	
Subtopics to be covered	NA	
Readings	NA	
Case Title & Number	NA	
Pedagogy	NA	
Session 30	Reading and Revision Week	
Objective of the session	Course revision and doubt clearing	
Subtopics to be covered	NA	
Readings	NA	
Case Title & Number	NA	
Pedagogy	NA	

Disability Support

JGU endeavours to make all its courses accessible to students. The Disability Support Committee (DSC) has identified conditions that could hinder a student's overall well-being. These include physical and mobility-related difficulties, visual impairment, hearing impairment, mental health conditions, and intellectual/learning difficulties, e.g., dyslexia and dyscalculia. Students with any known disability needing academic and other support are required to register with the Disability Support Committee (DSC) by following the procedure specified at <https://jgu.edu.in/disability-support-committee/>

Students who need support may register any time during the semester up until a month before the end-of-semester exam begins. Students who wish to continue receiving support from the previous semester must re-register within the first month of the new semester. Last-minute registrations and support might not be possible, as sufficient time is required to make the arrangements for support.

The DSC maintains strict confidentiality about the identity of the student and the nature of their disability, and the same is requested from faculty members and staff as well. The DSC takes a strong stance against in-class and out-of-class references made about a student's disability without their consent and disrespectful comments referring to a student's disability.

All general queries are to be addressed to disabilitysupportcommittee@jgu.edu.in

Disclaimer: This course outline including assessments, sessions and/or readings may be revised during the semester if such need arises.